

WHAT IS CLAIMED IS:

1. An FRP structural member comprising reinforcing fibers, which comprises carbon fibers (a) having tensile modulus of 400 to 850 GPa, in which the carbon fibers (a) are placed so that the orientation direction of the carbon fibers (a) becomes parallel to the longitudinal direction of the structural member.

2. The FRP structural member according to claim 1, which further comprises carbon fibers (b) having tensile modulus of 200 to less than 400 GPa, in which the carbon fibers (b) are placed so that the orientation direction of the carbon fibers (b) becomes parallel to the longitudinal direction of the structural member.

3. The FRP structural member according to claim 1, wherein the carbon fibers (a) are placed in the range of not more than 50% of the distance between the surface of the member and a neutral surface in the cross-section surface of the member and in the direction of the neutral surface from the surface of the member.

4. The FRP structural member according to claim 2, wherein the carbon fibers (b) are placed in the range of not more than 50% of the distance between the surface of the member and a neutral surface in the cross-section surface of the member

and in the direction of the neutral surface from the surface of the member.

5. The FRP structural member according to claim 1, which further comprises carbon fibers (c) having tensile modulus of 200 to 850 GPa, in which the carbon fibers (c) are placed in the site vertical to the neutral surface in the cross-sectional surface of the member and wherein the orientation direction of the carbon fibers (c) forms an angle of  $\pm 45$  degrees relative to the longitudinal direction of the member.

6. The FRP structural member according to claim 2, which further comprises carbon fibers (c) having tensile modulus of 200 to 850 GPa, in which the carbon fibers (c) are placed in the site vertical to the neutral surface in the cross-sectional surface of the member and wherein the orientation direction of the carbon fibers (c) forms an angle of  $\pm 45$  degrees relative to the longitudinal direction of the member.

7. The FRP structural member according to claim 6, wherein a total amount of the carbon fibers (a), the carbon fibers (b) and the carbon fibers (c) used is 5 to 25 % by mass, based on a total amount of the reinforcing fibers and carbon fibers used in the FRP structural member.